10807710.trn

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NEWS 1		Web Page for STN Seminar Schedule - N. America
NEWS 2	JAN 08	CHEMLIST enhanced with New Zealand Inventory of Chemicals
NEWS 3	JAN 16	CA/CAplus Company Name Thesaurus enhanced and reloaded
NEWS 4	JAN 16	IPC version 2007.01 thesaurus available on STN
NEWS 5	JAN 16	WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS 6	JAN 22	CA/CAplus updated with revised CAS roles
NEWS 7	JAN 22	CA/CAplus enhanced with patent applications from India
NEWS 8	JAN 29	PHAR reloaded with new search and display fields
NEWS 9	JAN 29	CAS Registry Number crossover limit increased to 300,000 in multiple databases
NEWS 10	FEB 15	PATDPASPC enhanced with Drug Approval numbers
NEWS 11	FEB 15	RUSSIAPAT enhanced with pre-1994 records
NEWS 12	FEB 23	KOREAPAT enhanced with IPC 8 features and functionality
NEWS 13	FEB 26	MEDLINE reloaded with enhancements
NEWS 14	FEB 26	EMBASE enhanced with Clinical Trial Number field
NEWS 15	FEB 26	TOXCENTER enhanced with reloaded MEDLINE
NEWS 16	FEB 26	IFICDB/IFIPAT/IFIUDB reloaded with enhancements
NEWS 17	FEB 26	CAS Registry Number crossover limit increased from 10,000 to 300,000 in multiple databases
NEWS 18	MAR 15	WPIDS/WPIX enhanced with new FRAGHITSTR display format
NEWS 19	MAR 16	CASREACT coverage extended
NEWS 20	MAR 20	MARPAT now updated daily
NEWS 21	MAR 22	LWPI reloaded
NEWS 22	MAR 30	RDISCLOSURE reloaded with enhancements
NEWS 23	APR 02	JICST-EPLUS removed from database clusters and STN
NEWS 24	APR 30	GENBANK reloaded and enhanced with Genome Project ID field
NEWS 25	APR 30	CHEMCATS enhanced with 1.2 million new records
NEWS 26	APR 30	CA/CAplus enhanced with 1870-1889 U.S. patent records
NEWS 27	APR 30	INPADOC replaced by INPADOCDB on STN
NEWS 28	MAY 01	New CAS web site launched
NEWS 29	MAY 08	CA/CAplus Indian patent publication number format defined
NEWS 30	MAY 14	RDISCLOSURE on STN Easy enhanced with new search and display fields
NEWS 31	MAY 21	BIOSIS reloaded and enhanced with archival data
NEWS 32	MAY 21	TOXCENTER enhanced with BIOSIS reload
NEWS 33	MAY 21	CA/CAplus enhanced with additional kind codes for German patents
NEWS 34	MAY 22	CA/CAplus enhanced with IPC reclassification in Japanese patents

NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

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 NEWS LOGIN     Welcome Banner and News Items
 NEWS IPC8      For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that
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FILE 'HOME' ENTERED AT 09:26:40 ON 13 JUN 2007

=>
Uploading
THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE
Do you want to switch to the Registry File?
Choice (Y/n):
Switching to the Registry File...
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index.  Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of
commands which can be used in this file.

=> FILE REGISTRY

COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                      ENTRY    SESSION
FULL ESTIMATED COST                                    0.21       0.21

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10807710.trn

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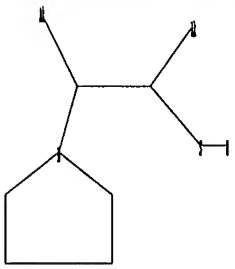

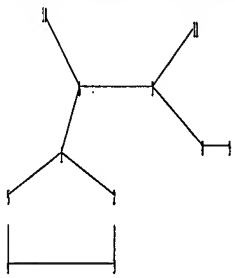

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ring nodes :
1 2 3 4 5
chain bonds :
1-6 6-7 6-10 7-8 7-11 8-9
ring bonds :
1-2 1-5 2-3 3-4 4-5
exact/norm bonds :
1-2 1-5 1-6 6-10 7-8 7-11
exact bonds :
2-3 3-4 4-5 6-7 8-9
isolated ring systems :
containing 1 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS

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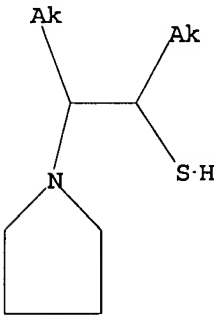
L1 STR



Structure attributes must be viewed using STN Express query preparation.

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SAMPLE SCREEN SEARCH COMPLETED - 4734 TO ITERATE

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INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:        90554 TO    98806
PROJECTED ANSWERS:               0 TO        0

L2             0 SEA SSS SAM L1

=> s l1 sss full
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FULL SCREEN SEARCH COMPLETED -     94136 TO ITERATE

100.0% PROCESSED    94136 ITERATIONS                                  6 ANSWERS
SEARCH TIME: 00.00.02

L3             6 SEA SSS FUL L1

=> FIL HCAPLUS
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                     172.10     172.31

FILE 'HCAPLUS' ENTERED AT 09:27:18 ON 13 JUN 2007
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FILE LAST UPDATED: 12 Jun 2007  (20070612/ED)

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 substance identification.

=> s l3
L4             4 L3

=> d l4 ibib abs hitstr tot

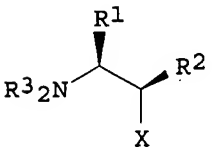
L4   ANSWER 1 OF 4  HCAPLUS  COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:         2005:130245  HCAPLUS
DOCUMENT NUMBER:          142:373291
TITLE:                    New β-amino thiols as efficient catalysts for
                          highly enantioselective alkenylzinc addition to
```

aldehydes

AUTHOR(S): Tseng, Shi-Liang; Yang, Teng-Kuei
CORPORATE SOURCE: Department of Chemistry, National Chung-Hsing University, Taichung, 40227, Peop. Rep. China

SOURCE: Tetrahedron: Asymmetry (2005), 16(4), 773-782
CODEN: TASYE3; ISSN: 0957-4166
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 142:373291

GI



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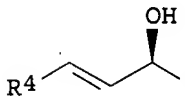


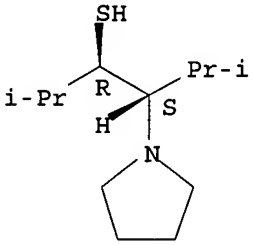
II

AB A series of new optically active β-amino thiols and thiol acetates I [X = HS, MeCOS; R1, R2 = Me2CH, Ph; R32 = (CH2)4, (CH2)5], prepared from the simple natural amino acid (S)-(-)-valine, were found to be effective catalysts for the enantioselective addition of alkenylzinc reagents R4CH:CHZnEt (R4 = n-Bu, Me3C, n-hexyl, Ph) to aldehydes R5CHO (R5 = cyclohexyl, Ph, 2-ClC6H4, 4-MeOC6H4, PhCH:CH) and thereby providing an efficient route to chiral (E)-allylic alcs. II with ees of up to >99%.

IT 757243-33-7P
RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(preparation of β-amino-substituted alcs., thiols and thiol acetates as chiral catalysts for enantioselective alkenylzinc addition to aldehydes)

RN 757243-33-7 HCAPLUS
CN 1-Pyrrolidineethanethiol, α,β-bis(1-methylethyl)-, (αR,βS)- (9CI) (CA INDEX NAME)

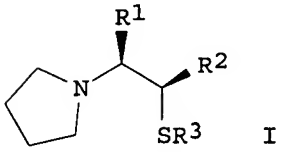
Absolute stereochemistry. Rotation (+).



REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:920913 HCAPLUS
DOCUMENT NUMBER: 142:74307
TITLE: The application of chiral amino thiols as catalysts in the enantioselective addition of diethylzinc to aldehydes
AUTHOR(S): Tseng, Shi-Liang; Yang, Teng-Kuei

CORPORATE SOURCE: Department of Chemistry, National Chung-Hsing University, Taichung, 40227, Taiwan
SOURCE: Tetrahedron: Asymmetry (2004), 15(21), 3375-3380
CODEN: TASYE3; ISSN: 0957-4166
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 142:74307
GI



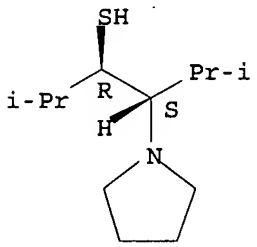
I

AB Starting from (S)-(-)-valine, a series of new chiral amino thiol and corresponding thioacetate ligands I (R1, R2 = Me2CH, Ph; R3 = H, MeCO) was prepared in an efficient manner and applied in the asym. diethylzinc addition to aldehydes R4CHO (R4 = Ph, 2-MeOC6H4, 2-naphthyl, n-octyl, etc.) to afford alcs. (R)-R4CH(OH)Et with excellent enantioselectivity (up to 99% ee) and with a catalytic loading as little as 0.02 mol % [for the amino thiol I (R1 = R2 = Ph; R3 = H)].

IT 757243-33-7P
RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(preparation of chiral amino thiols and their use as catalysts in enantioselective addition of diethylzinc to aldehydes)

RN 757243-33-7 HCAPLUS
CN 1-Pyrrolidineethanethiol, α,β-bis(1-methylethyl)-, (αR,βS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:759870 HCAPLUS
DOCUMENT NUMBER: 141:277501
TITLE: Preparation of 2-aminoethanethiol compounds as efficient catalysts for asymmetric addition reaction
INVENTOR(S): Yang, Teng-Kuei; Tseng, Shi-Liang; Liu, To; Chen, Nan-Kuang
PATENT ASSIGNEE(S): Taiwan
SOURCE: U.S. Pat. Appl. Publ., 15 pp., Cont.-in-part of U.S.

Pat. Appl. 2003 153,781.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004181057	A1	20040916	US 2004-807710	20040323
US 2003153781	A1	20030814	US 2002-39557	20020108
US 6861536	B2	20050301		

PRIORITY APPLN. INFO.: US 2002-39557 A2 20020108
OTHER SOURCE(S): MARPAT 141:277501

AB The present invention discloses aminothiol compds. having a general formula R3R4NCH(R1)CH(R2)SR5 (wherein R1-R4 = aryl, C1-9 alkyl; or R3, R4 and N form a three- to eight-membered heterocycle; R5 = H, C1-6 alkyl). Such compds. can perform as superior catalysts for the synthesis of chiral secondary alcs. by asym. addition reaction of organic metal compds. such organozinc compound and aldehyde. According to the present invention, the aminothiol compds. are needed only less than 0.02% based on main reactants to obtain enantioselectivity higher than 98% enantiomeric excess, whereby the asym. reactions can become very economic. Thus, cycloalkylation of (2R,3S)-3-amino-4-methylpentan-2-ol by 1,4-dibromobutane in the presence of Na2CO3 in MeCN under refluxing for 12 h gave (2R,3S)-4-methyl-3-(1-pyrrolidinyl)pentan-2-ol which was treated with MeSO2Cl and Et3N in CH2Cl2 for 2 h at 0° for 2 h, concentrated, and reacted with thioacetic acid in benzene at room temperature for 12 h to give 20% (2R,3S)-4-methyl-3-(1-pyrrolidinyl)-2-thioacetylpentane (I) and 40% (3R,4S)-2-methyl-4-(1-pyrrolidinyl)-3-thioacetylpentane (II). I or II was reduced by LiAlH4 in Et2O at 0° for 1 h to give (2R,3S)-4-methyl-3-(1-pyrrolidinyl)pentane-2-thiol or (3R,4S)-2-methyl-4-(1-pyrrolidinyl)pentane-3-thiol (III) in 80% yield. Asym. addition reaction of benzaldehyde with Et2Zn in toluene in the presence of 0.05 mequiv. (equivalence concentration)

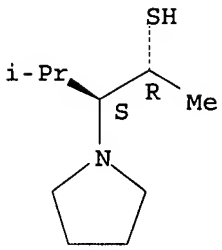
III

at -20° for 12 h gave (R)-2-phenylpropanol (99.6% ee). Chiral (R)-1-phenyl-2-alken-1-ols were also prepared from butylacetylene and hexylacetylene by monohydroboration of alkynes with BH3.SMe2 and transmetalation of boron to zinc with diethylzinc and asym. addition reaction with benzaldehyde or derivs. using the aminothiol catalysts.

IT 757242-87-8P, (2R,3S)-4-Methyl-3-(1-pyrrolidinyl)pentane-2-thiol
757242-90-3P, (3R,4S)-2-Methyl-4-(1-pyrrolidinyl)pentane-3-thiol
757243-14-4P, (3S,4R)-2-Methyl-3-(1-pyrrolidinyl)octane-4-thiol
757243-19-9P, (3R,4S)-2-Methyl-4-(1-pyrrolidinyl) octane-3-thiol
757243-33-7P, (3R,4S)-2,5-Dimethyl-4-(1-pyrrolidinyl)hexane-3-thiol
RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(catalyst; preparation of 2-aminoethanethiol compds. as catalysts for asym. addition reaction of organic metal compound with aldehydes)

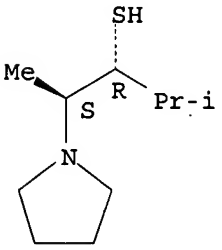
RN 757242-87-8 HCAPLUS
CN 1-Pyrrolidineethanethiol, α-methyl-β-(1-methylethyl)-, (αR,βS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 757242-90-3 HCAPLUS
CN 1-Pyrrolidineethanethiol, β-methyl-α-(1-methylethyl)-, (αR,βS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 757243-14-4 HCAPLUS
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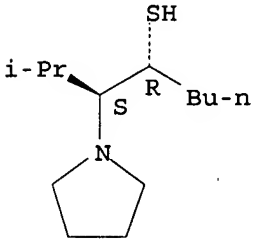
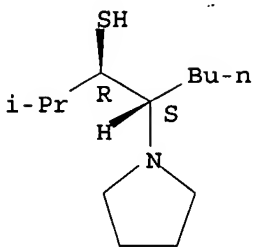
Absolute stereochemistry. Rotation (+).



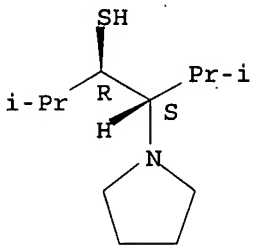
RN 757243-19-9 HCAPLUS
CN 1-Pyrrolidineethanethiol, β-butyl-α-(1-methylethyl)-, (αR,βS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 757243-33-7 HCAPLUS
CN 1-Pyrrolidineethanethiol, α,β-bis(1-methylethyl)-, (αR,βS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



L4 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:636044 HCAPLUS
DOCUMENT NUMBER: 135:195495
TITLE: Preparation of 2-oxo-1-pyrrolidine derivatives and their anticonvulsant activity
INVENTOR(S): Differding, Edmond; Kenda, Benoit; Lallemand, Benedicte; Matagne, Alain; Michel, Philippe; Pasau, Patrick; Talaga, Patrice
PATENT ASSIGNEE(S): UCB, S.A., Belg.
SOURCE: PCT Int. Appl., 100 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001062726	A2	20010830	WO 2001-EP1992	20010221
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EP	1604979	A1	20051214	EP 2005-13657	20010221
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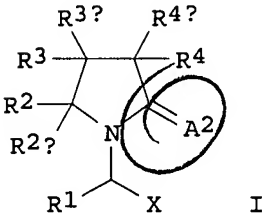

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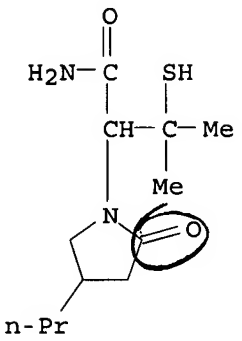
AB The title 2-oxo-1-pyrrolidine derivs. I [X = CA1NR5R6, CA1OR7, CA1R8, cyano; A1, A2 = O, S, NR9; R1 = H, alkyl, aryl, CH2R1; R2-R4 = H, halo, OH, SH, etc.; R2a, R3a, R4a = H, halo, alkyl, alkenyl, alkynyl, aryl; R5-R7, R9 = H, OH, alkyl, aryl, heterocyclyl; R8 = H, OH, SH, etc.] were prepared E.g., (2S)-2-[2-oxo-4-(phenoxymethyl)-1-pyrrolidinyl]butanamide was prepared I are particularly suited for treating neurol. disorders such as epilepsy.

IT 357337-34-9P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of 2-oxo-1-pyrrolidine derivs. and their anticonvulsant activity)

RN 357337-34-9 HCAPLUS

CN 1-Pyrrolidineacetamide, α-(1-mercapto-1-methylethyl)-2-oxo-4-propyl- (9CI) (CA INDEX NAME)

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